Docket No. 2004-0800

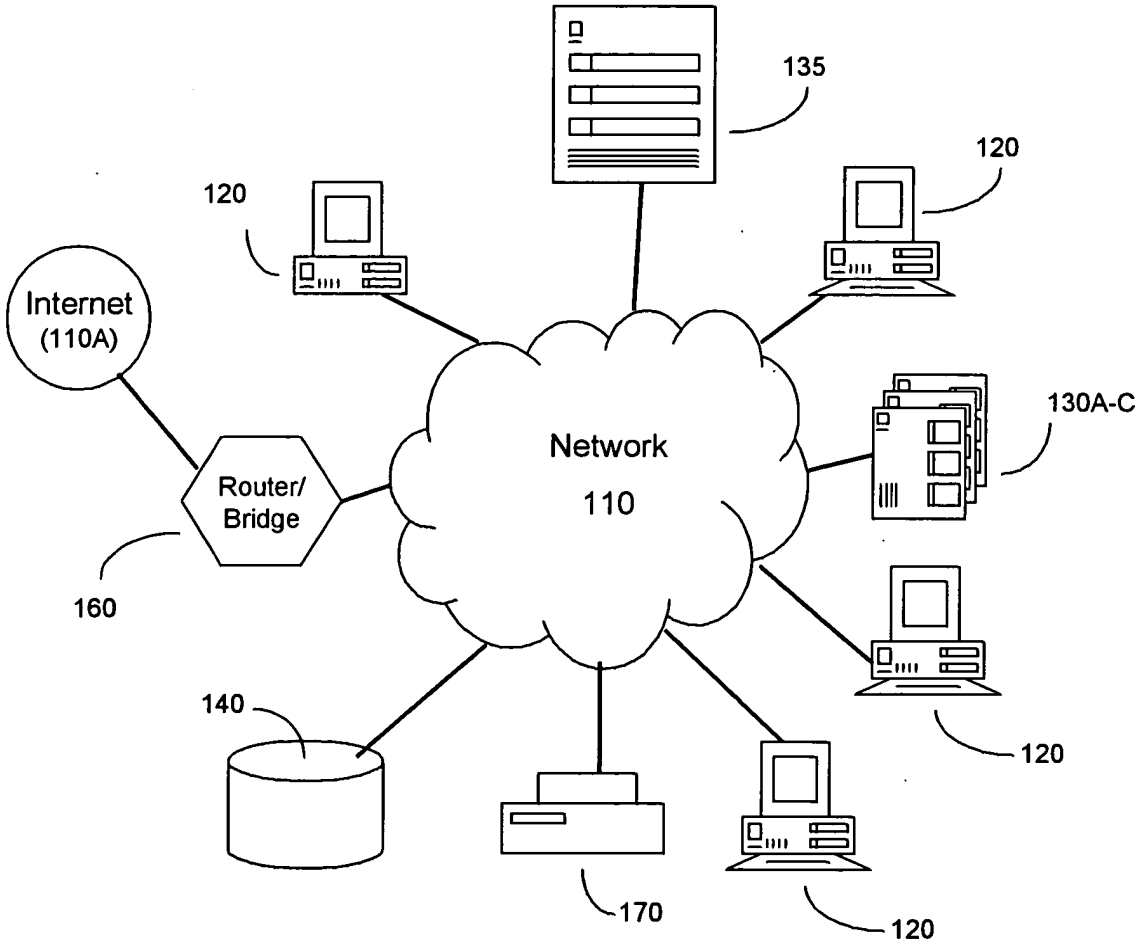


FIG. 1

Attorney Docket No. 10030.0004-00000

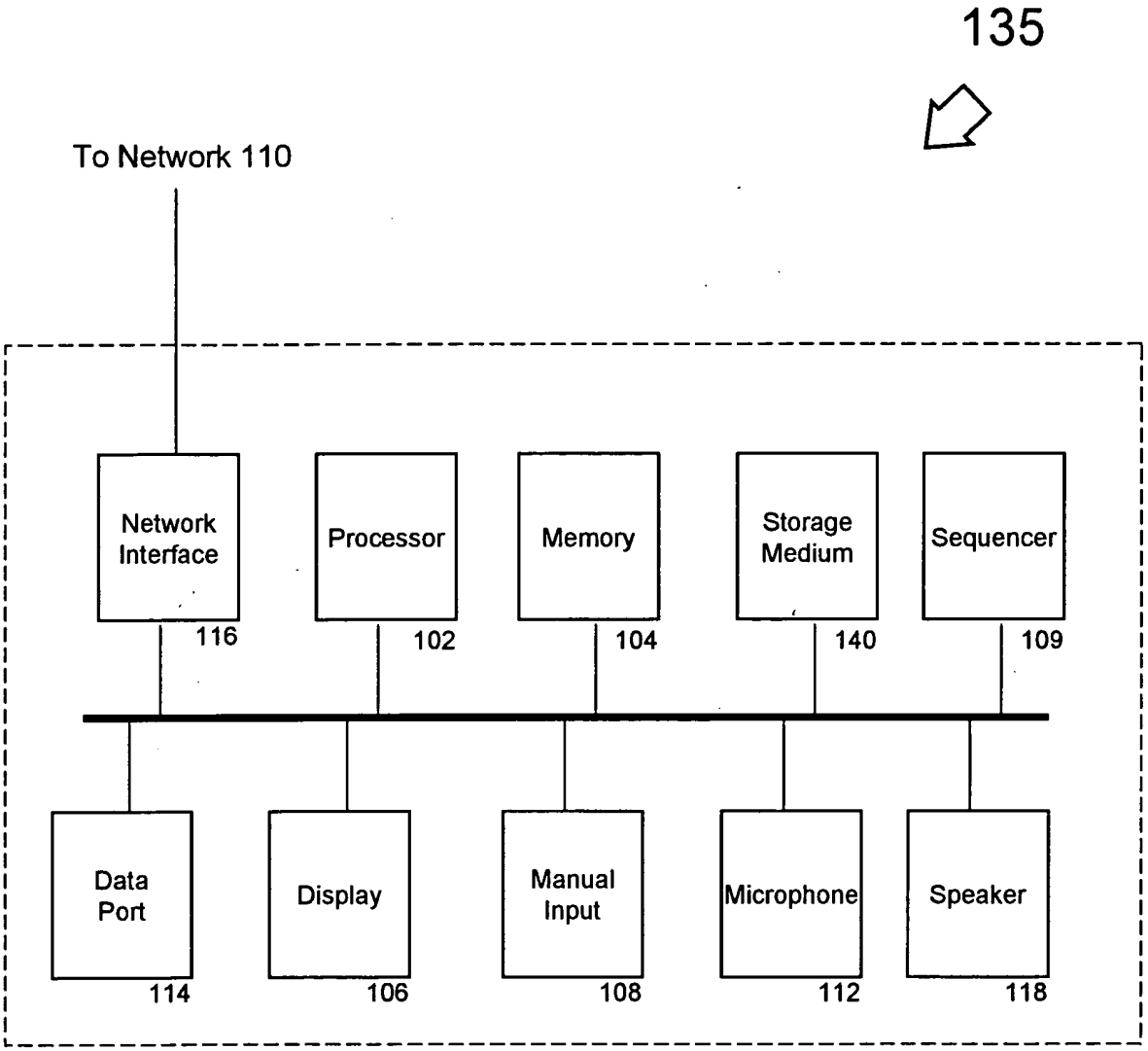


FIG. 2

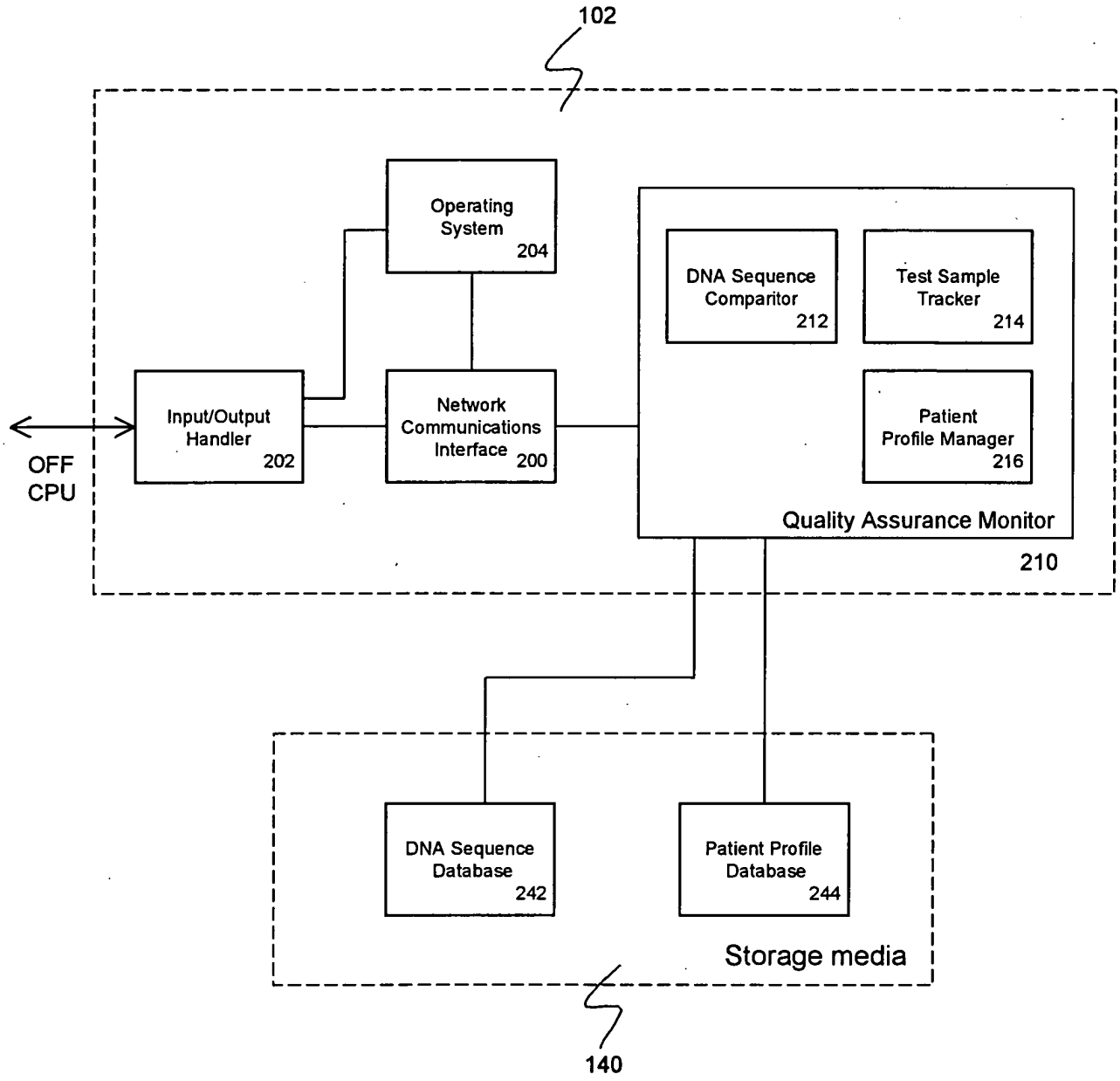
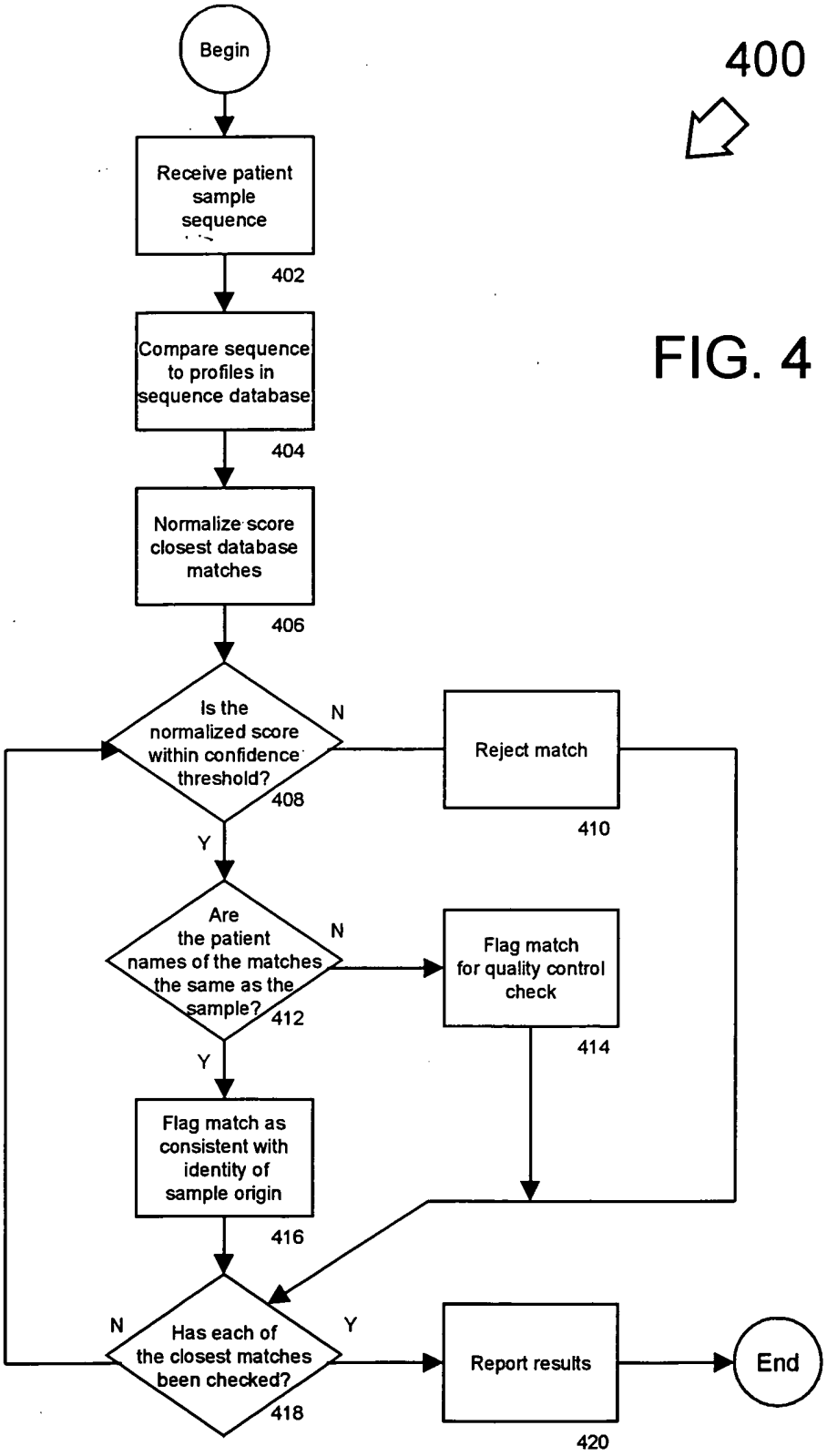

102
Operating System
204
DNA Sequence Comparitor
212
Test Sample Tracker
214
Input/Output Handler
202
Network Communications Interface
200
Patient Profile Manager
216
OFF CPU
Quality Assurance Monitor
210
DNA Sequence Database
242
Patient Profile Database
244
Storage media
140

FIG. 3


Begin
Receive patient sample sequence
402
Compare sequence to profiles in sequence database
404
Normalize score closest database matches
406
Is the normalized score within confidence threshold?
408
N
Reject match
410
Y
Are the patient names of the matches the same as the sample?
412
N
Flag match for quality control check
414
Y
Flag match as consistent with identity of sample origin
416
N
Has each of the closest matches been checked?
418
Y
Report results
420
End

400

FIG. 4

20080124v2.4.00.1

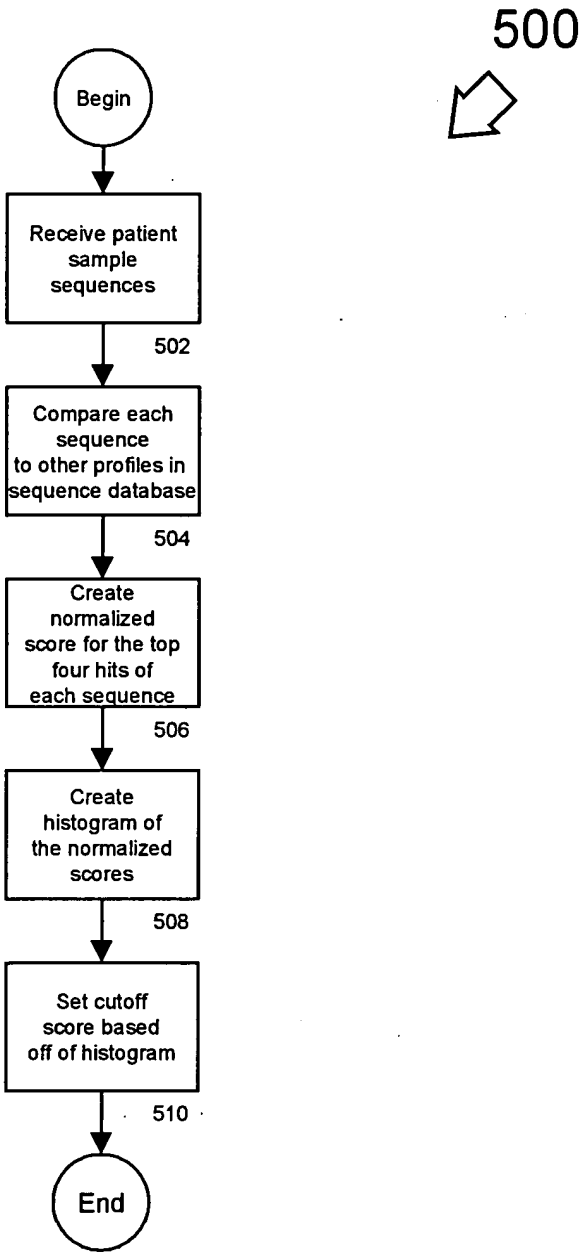


FIG. 5

600

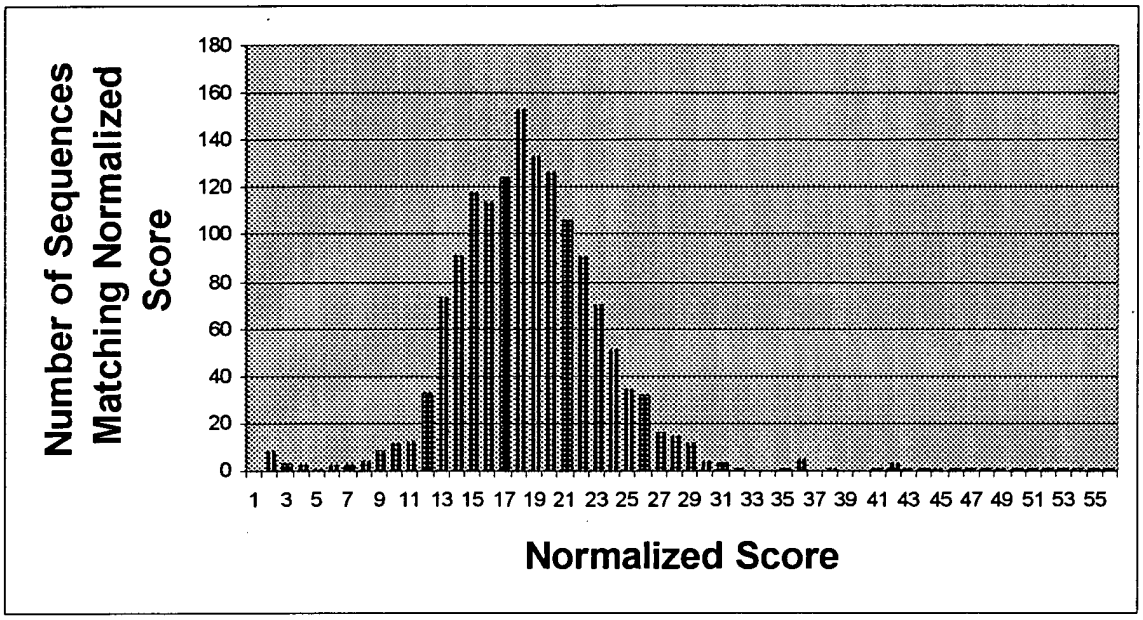
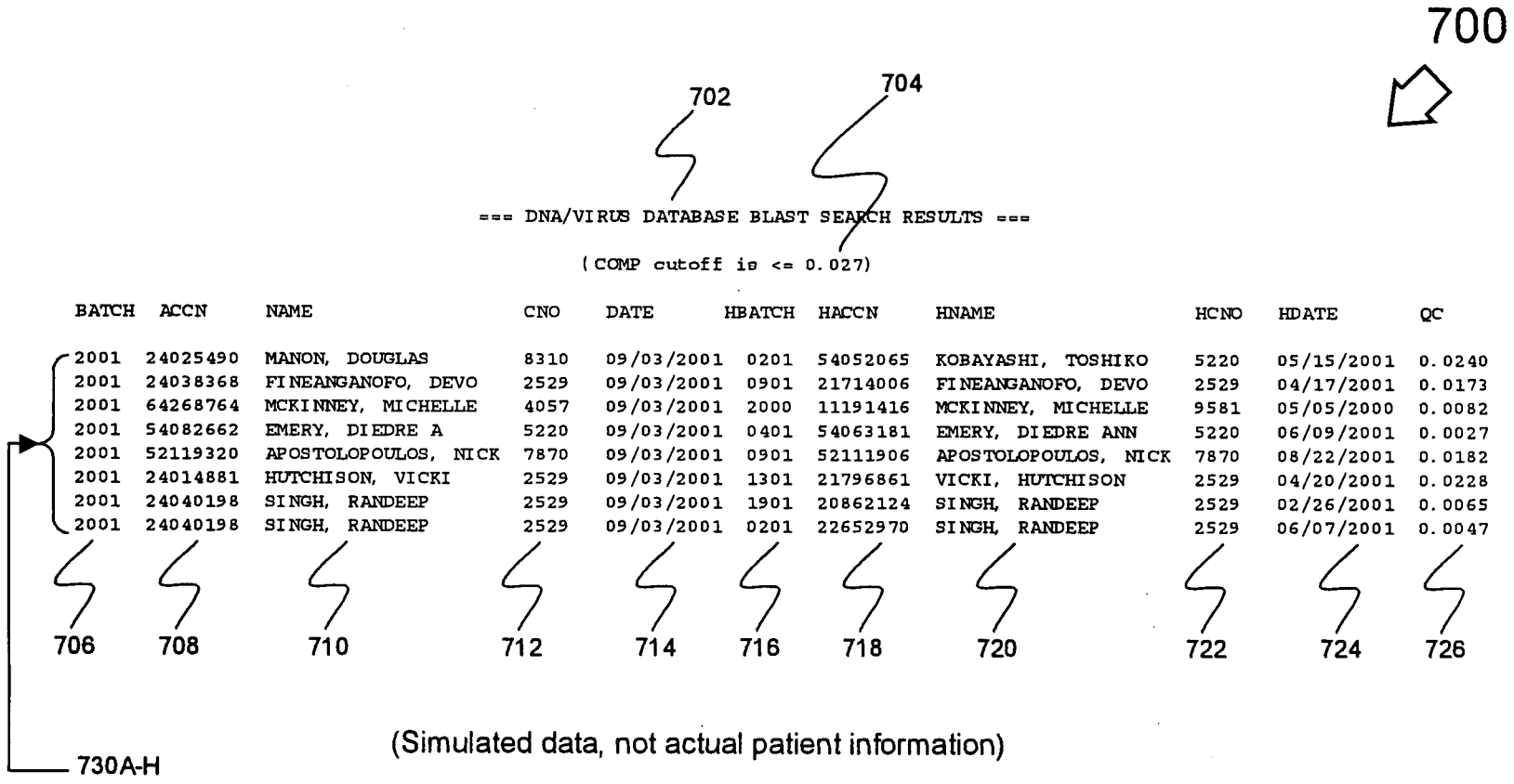

Number of Sequences Matching Normalized Score
180
160
140
120
100
80
60
40
20
0
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55
Normalized Score

FIG. 6



(Simulated data, not actual patient information)

FIG. 7